THE OFFICE OF REGULATORY STAFF DIRECT TESTIMONY AND EXHIBITS

OF

JACQUELINE R. CHERRY AUGUST 13, 2007



DOCKET NO. 2007-3-E

Duke Energy Carolinas, LLC Annual Review of Base Rates for Fuel Costs

PROCEEDING?

1		
2		TESTIMONY OF JACQUELINE R. CHERRY
3		ON BEHALF OF
4		THE OFFICE OF REGULATORY STAFF
5		DOCKET NO. 2007-3-E
6		
7	Q.	PLEASE STATE FOR THE RECORD YOUR NAME, BUSINESS
8		ADDRESS AND OCCUPATION.
9	A.	My name is Jacqueline R. Cherry. My business address is 1441 Main
10		Street, Suite 300, Columbia, South Carolina, 29201. I am employed by
11		the Office of Regulatory Staff ("ORS") in the Audit Department, as an
12		Audit Manager.
13	Q.	PLEASE STATE YOUR EDUCATIONAL BACKGROUND AND
14		EXPERIENCE.
15	A.	I received a B.S. Degree in Business Administration, with a major in
16		Accounting from Johnson C. Smith University in 1976. From February
17		1979 to October 2004, I was employed as an auditor with the Public
18		Service Commission of South Carolina (the "Commission") and
19		participated in cases involving the regulation of gas, electric, telephone,
20		water and wastewater utilities. In October 2004, I began employment as
21		an Audit Manager with the Office of Regulatory Staff ("ORS").
22	Q.	WHAT IS THE PURPOSE OF YOUR TESTIMONY IN THIS

- The purpose of my testimony is to present the results of ORS Audit 1 A. Staff's examination of Duke Energy Carolinas, LLC ("the Company", 2 "Duke" or "DEC") books and records pertaining to the Fuel Adjustment 3 Clause operation for the current review period of July 2006 through 4 5 September 2007 (Docket No. 2007-3-E). The findings of the examination are set forth below and in the exhibits attached to this 6 testimony. The findings presented in the Report of the Audit Department 7 were either prepared by me or were prepared under my direction and 8 9 supervision.
- 10 Q. WHAT WAS THE PURPOSE OF THIS EXAMINATION?
- A. The purpose of the examination was to determine whether the Company's accounting practices in computing and applying the monthly Fuel Adjustment Clause were in compliance with the S.C. Code Ann. §58-27-865, as amended (2007 S.C. Acts 16). To accomplish this task, ORS examined the components associated with the operation of the clause.
 - Q. WHAT WAS THE SCOPE OF ORS'S EXAMINATION?

A. ORS Audit Staff examined and traced the monthly fuel adjustment factor calculations and the fuel recovery balances as recorded in the Company's books and records. The current fuel review covered the period July 2006 through September 2007. However, the ORS Audit Staff did not examine the months of July, August and September 2007

1	because estimated figures for those three months were used by the
2	Company. The examination consisted of:
3	Analyzing the Fuel Stock Account – Account # 151
4	2. Verifying Receipts to the Fuel Stock Account – Account # 151
5	3. Verifying Charges to Nuclear Fuel Expense - Account #518
6	4. Verifying Purchased and Interchange Power Fuel Costs
7	5. Verifying KWH Sales
8	6. Recalculating the Fuel Adjustment Factors and Verifying the
9	Deferred Fuel Costs
10	7. Recalculating the True-up for the Over/Under-Recovered Fuel
11	Costs
12	8. Verifying the Details of the Company's Fuel Costs Including
13	Variable Environmental Costs
14	Q. PLEASE ELABORATE ON ORS AUDIT STAFF'S COMPUTATION OF
15	THE TRUE-UP OF OVER/UNDER-RECOVERED FUEL COSTS.
16	A. ORS Audit Exhibit JRC-7, entitled "S.C. Retail Comparison of Fuel
10	The state of the s
17	Revenues & Expenses" provides explanations for ORS's cumulative
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17 18	Revenues & Expenses" provides explanations for ORS's cumulative over-recovery balance as of June 2007, and as of September 2007. The
17 18 19	Revenues & Expenses" provides explanations for ORS's cumulative over-recovery balance as of June 2007, and as of September 2007. The cumulative over-recovery amount totaled \$1,632,482 as of June 2007.
17 18 19 20	Revenues & Expenses" provides explanations for ORS's cumulative over-recovery balance as of June 2007, and as of September 2007. The cumulative over-recovery amount totaled \$1,632,482 as of June 2007. ORS then added the projected under-recovery of (\$1,594,797) for the
17 18 19 20 21	Revenues & Expenses" provides explanations for ORS's cumulative over-recovery balance as of June 2007, and as of September 2007. The cumulative over-recovery amount totaled \$1,632,482 as of June 2007. ORS then added the projected under-recovery of (\$1,594,797) for the month of July 2007, the projected under-recovery of (\$155,662) for the
17 18 19 20 21 22	Revenues & Expenses" provides explanations for ORS's cumulative over-recovery balance as of June 2007, and as of September 2007. The cumulative over-recovery amount totaled \$1,632,482 as of June 2007. ORS then added the projected under-recovery of (\$1,594,797) for the month of July 2007, the projected under-recovery of (\$155,662) for the month of August 2007 and the projected over-recovery of \$6,116,009 for

1	(McManeus Exhibit No. 5) and as of September 2007, the cumulative
2	over-recovery totals \$6,302,000 (McManeus Exhibit No. 5).
3	The difference between the Company's and ORS's cumulative over-
4	recovery as of actual June 2007 is \$304,518. The difference between
5	the Company's and ORS's cumulative over-recovery as of estimated
6	September 2007 totals \$303,968.
7	Effective with the May 3, 2007 passage of the S.C. Base Load Review
8	Act, the state's fuel clause (S.C. Code Ann. §58-27-865) was amended
9	to include as components of fuel cost "(a) the cost of ammonia, lime,
10	limestone, urea, dibasic acid, and catalysts consumed in reducing or
11	treating emissions, and (b) the cost of emission allowances, as used,
12	including allowance for SO2, NOx, mercury and particulates."
13	Accordingly, Audit Exhibit JRC-5 provides the details needed to calculate
14	the variable environmental costs to be included in the fuel factor.
15	Effective May 3, 2007, SO2 Emission Allowances were included in a
16	separate environmental cost factor of the fuel adjustment clause ("FAC").
17	Prior to that date, these costs had been included in the base fuel factor
18	under the FAC. Audit Exhibit JRC-5 reflects an under-recovery of
19	(\$6,253,502) in S.C. Environmental Costs that will be spread among the
20	various customer classes.
21	As stated in the Company's Adjustment for Fuel Costs, fuel costs will be
22	included in base rates to the extent determined reasonable and proper.

1	Q.	PLEASE EXPLAIN THE CONTENT OF THE AUDIT STAFF EXHIBITS.	
2	A.	ORS prepared audit exhibits from the Company's books and records	
3		reflecting fuel costs during the review period. Specifically, these exhibits	
4		include the following:	
5		Audit Exhibit JRC-1: Coal Cost Statistics	
6		Audit Exhibit JRC-2: Received Coal-Cost Per Ton Comparison	
7		Audit Exhibit JRC-3: Detail of Nuclear Cost	
8		Audit Exhibit JRC-4: Total Burned Cost (Fossil and Nuclear)	
9		Audit Exhibit JRC-5: Details of Environmental Costs	
10		Audit Exhibit JRC-6: Cost of Fuel	
11		Audit Exhibit JRC-7: S.C. Retail Comparison of Fuel Revenues &	
12		Expenses	
13	Q.	WOULD YOU PLEASE EXPLAIN FOOTNOTE (1) TO AUDIT EXHIBIT	
14		JRC-7?	
15	A.	Yes. Footnote (1) addresses the cumulative over-recovery balance	
16		brought forward from June 2006 of \$6,984,672. As reflected on this	
17		exhibit, Duke's per books over-recovery balance of \$10,861,289 as of	
18		6/06 and a 9/06 under-recovery adjustment of (\$3,876,617) results in the	
19		same cumulative over-recovery balance as ORS from June 2006. The	
20		9/06 under-recovery adjustment of (\$3,876,617) is a true-up adjustment	
21		that reflects the effect on the cumulative balance of the Deferred	
22		Account for additional Purchased Power Costs based on the S.C. Fuel	

Factor.

1		Statute. Duke's figures are reflected on a rounded basis for testimony
2		purposes (McManeus Exhibit No. 5).
3	Q.	DID YOU NOTE ANY DIFFERENCES BETWEEN ORS'S AND THE
4		COMPANY'S CALCULATION OF THE OVER-COLLECTION?
5	A.	Yes, I did. Each of the differences are identified and described in the
6		footnotes (2) through (7) of the Audit Exhibit JRC-7. Based on ORS's
7		examination of the actual months of the review period, these footnotes
8		explain ORS's proposed adjustments, as follows:
9		Footnote (2) - The S.C. Base Load Review Act became effective on May
10		3, 2007. Effective May 3, 2007, a separate Environmental base cost
11		factor must be calculated for variable environmental costs. Accordingly,
12		SO2 Emission Allowance Expenses are shown with other Environmental
13		Costs rather than with Fuel Base Factor cost components. In
14		accordance with the revised statute, ORS reflected the first two (2) days
15		of SO2 Emission Allowance costs for the month of May with the Base
16		Fuel Factor calculation and the remaining twenty-nine (29) days with the
17		Environmental Cost Base Factor. This differs from Duke based on their
18		implementation date of May 4, 2007, for the change. Duke used three (3)
19		days for SO2 Emission Allowance costs with the Base Fuel Factor
20		calculation and twenty-eight (28) days for the Environmental Cost Base

Α.

Also, this footnote addresses the details of environmental costs, specifically Reagent Costs, as described in Audit Exhibit JRC-5. ORS made several adjustments to these costs in that exhibit. Adjustments were made in May and June 2007 to correct over-stated Sales & Use Taxes applied to the reagents, to exclude an invoice that was included already in the cost calculations, and to reclassify an invoice that was categorized incorrectly (no cost change on that correction).

8 Q. PLEASE EXPLAIN THE CORRECTIONS FOR FOOTNOTE (3).

Footnote (3) reflects ORS revised Purchased Power figures for July 2006 through June 2007 and the resultant over/under-recovery monthly deferred fuel amounts for that period in conformity with S.C. Code Ann. §58-27-865. This statute addresses "fuel costs related to purchased power." Subsection (A)(2)(b) of this statute states that the total delivered cost of economy purchases, including (but not limited to) transmission charges, are included in Purchased Power Costs if those types of purchases are "less than the purchasing utility's avoided variable costs for the generation of an equivalent quantity of electric power." DEC reflects its Purchased Power figures that contain purchases with non-identifiable fuel costs on a N.C. Fuel Clause basis, which uses a percentage-computed fuel proxy. Identifiable fuel costs are recorded as invoiced or as documented. In order to comply with the S.C. Statute, DEC adjusted its Purchased Power Costs for the review period to reflect

Q.

A.

the purchase costs allowable under the S.C. Fuel Adjustment Clause.
Therefore, after DEC applied this statute to its economic purchases,
DEC's adjustment would have increased its Purchased Power Costs of
\$59,460,512 for the review period, on a total systemnative load basis
by \$26,214,099, which results in "as adjusted" Purchased Power Costs
of \$85,674,611. However, after ORS applied this statute to the
examined economic purchases along with the applicable avoided costs,
ORS had several adjustments which resulted in a difference from DEC's
adjustment by a reduction of (\$302,719) on a total system—native load
basis, and produced an "as adjusted" Purchased Power Costs total of
\$85,371,892. This figure reflects the usage of an avoided cost as a
lesser price, at that point in time, over a purchase price. The
adjustments, for July and August 2006 which totaled (\$299,492), were
based on corrections from revised native load info applicable to
purchases using the S.C. Avoided Cost Fuel Proxy. Also, for July 2006,
ORS reduced the computed purchases applicable to the S.C. Fuel Proxy
by (\$3,227) for a miscalculation in costs.
PLEASE EXPLAIN THE CORRECTIONS AND ADJUSTMENTS FOR
FOOTNOTE (4).
Footnote (4) had several corrections and an adjustment, based on the
amended fuel statute, to Intersystem Sales. The corrections which

consisted of Footnotes (4a) through (4d) are as follows: (4a) and (4c)

dealt with Fuel in Transmission Losses. For August 2006, DEC did not
update its Transmission Losses for revised information. This error
affected Intersystem Sales since Fuel in Transmission Losses are
included in the Sales calculations. The correction was a reduction to
Sales of (\$38,916). For April 2007 thru June 2007, DEC calculated the
Emission Allowances associated with Fuel in Transmission Losses
incorrectly. The correction was a reduction to Sales of (\$909,615). (4b)
For March 2007 thru June 2007, DEC included some Nantahala Power
& Light Company ("NP&L") Intersystem Sales that should have been
excluded. The applicable KWH's were correctly excluded but the dollars
were not. The correction was a reduction to Sales for (\$429,938).
Footnote (4d) dealt with an adjustment to Sales due to the amended fuel
statute. Since there are SO2 Emission Allowances included in
Intersystem Sales, any allowances as of May 3, 2007 were computed in
the Environmental Cost Factor. This adjustment reflects the monetary
difference between ORS's and DEC's calculation for May 2007,
excluding 29 days versus 28 days, respectively, of allowances from the
Base Fuel Factor computation. The difference for one day is an
increase in the amount to be removed from Intersystem Sales of
\$13,927.

21 Q. PLEASE EXPLAIN THE CORRECTIONS FOR FOOTNOTE (5).

- Footnote (5) reflects a correction for May 2007 for a miscalculation of a 1 **A.** 2 portion of MWH's applicable to Intersystem Sales that are reflected as a 3 reduction to Total System Sales. The error of 40 MWH's resulted in an increase to System Sales. 4 5 Q. WHAT EFFECT DID THE EXCLUSION OF THE SO2 EMISSION ALLOWANCES HAVE ON THE CURRENT REVIEW PERIOD'S BASE 6 7 **FUEL FACTOR?** 8 A. Per Duke, the effect of the exclusion of the SO2 Emission Allowances. 9 from expenses and off-system sales, on the current review period's 10 1.7760 ¢/KWH (Billed) Base Fuel Factor increases the factor to 1.8187 11 ¢/KWH. This 1.8187 ¢/KWH reflects what the current factor would be 12 without the net Emission Allowances portion in off-system sales. This produces a decrement applicable to these allowances of 0.0427 ¢/KWH. 13 The only difference that ORS has on this issue is that for May 2007, 14 15 ORS used for 29 days to calculate the base fuel factor and Duke used 16 28 days. Therefore, for May 2007 ORS used a base fuel factor of 17 1.8159 ¢/KWH and Duke used 1.8146 ¢/KWH. DID THE COMPANY MAKE ANY ADJUSTMENTS OR TRUE-UPS 18 **Q**. **DURING THE ACTUAL REVIEW PERIOD?** 19
- 20 **A.** Yes. Two of the adjustments and/or true-ups made by the Company during the actual review period are described separately in ORS

ADDRESS?

- footnotes (1) and (7) to Audit Exhibit JRC-7. ORS footnote (1) was 1 2 discussed earlier in my testimony.
- PLEASE EXPLAIN FOOTNOTE (7) TO ORS AUDIT EXHIBIT JRC-7. 3 Q.
- Footnote (7) explains that in March 2007, DEC booked a true-up 4 A. adjustment to the cumulative balance in the Deferred Fuel Account 5 (Account No. 456.53). The over-recovery true-up adjustment per book 6 entry of \$1,517 was the result of a correction of an error in the January 7 2007 S.C. KWH Sales. The original over-recovery booked January 2007 8 entry was reduced based on the correction. The adjusting entry should 9 10 have been an under-recovery entry. Therefore, ORS's adjustment was 11 an under-recovery entry of (\$3,034) for March 2007.
- ARE THERE ANY OTHER ISSUES THAT YOU WOULD LIKE TO 12 **Q**. 13
- Duke had an additional adjustment entry which was reflected in 14 **A.** January 2007 as an adjustment to the Deferred Fuel Account. In the last 15 fuel review period (PSC Docket No. 2006-3-E), Duke had begun to issue 16 to its S.C. customers, through customers' bills (i.e., applied to S.C. KWH 17 Sales), a decrement that was approved by the S.C. PSC in PSC Docket 18 19 No. 2005-3-E. The decrement was based on excess accumulated deferred income taxes booked by the Company in previous years. The 20 21 S.C. portion of these funds, called the S.C. Deferred Tax Liability 22 "Giveback", totaled \$38,738,998 and was distributed from October 2005

- through September 2006. After September 2006, a balance remained of 1 \$870,740 (\$866,926 before the 1.0044 tax factor). 2 The Company credited this remaining balance to the S.C. customers per this adjusting 3 per book entry in January 2007 (in Account No. 232.08-Accounts 4 5 Payable-Unbilled Fuel Revenue-S.C.). WHAT WAS THE RESULT OF THE ORS AUDIT DEPARTMENT'S 6 Q. 7 **EXAMINATION?** Based on the ORS Audit Staff's examination of the Company's books 8 **A**. and records, and its operation of the fuel cost recovery mechanism, the 9 10 ORS Audit Department is of the opinion that, subject to the adjustments presented in Footnotes (1) through (7), the Company's books and 11 records accurately reflect the fuel costs incurred by the Company in 12 accordance with previous Commission orders and with S.C. Code Ann. 13 14 §58-27-865.
- 15 Q. DOES THIS CONCLUDE YOUR TESTIMONY?
- 16 **A.** Yes, it does.

REPORT OF THE AUDIT DEPARTMENT THE OFFICE OF REGULATORY STAFF

DOCKET NO. 2007-3-E

DUKE ENERGY CAROLINAS, LLC

REPORT OF THE AUDIT DEPARTMENT THE OFFICE OF REGULATORY STAFF

DOCKET NO. 2007-3-E

DUKE ENERGY CAROLINAS, LLC

ANNUAL REVIEW OF BASE RATES FOR FUEL COSTS

REVIEW PERIOD: JULY 1, 2006 – JUNE 30, 2007 (ACTUAL)
JULY 1, 2007 – SEPTEMBER 30, 2007 (ESTIMATED)

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Note: All of the ORS Audit Exhibits were prepared by the ORS Audit Staff.

REPORT OF THE AUDIT DEPARTMENT

DOCKET NO. 2007-3-E

DUKE ENERGY CAROLINAS, LLC

ANNUAL REVIEW OF BASE RATES FOR FUEL COSTS

ANALYSIS

The Office of Regulatory Staff's (ORS) Audit Department has made an examination of the books and records of Duke Energy Carolinas, LLC ("the Company" or "DEC") pursuant to the requirements under Docket No. 2007-3-E and S.C. Code Ann. §58-27-865, that periodic hearings be conducted before the Commission concerning the Adjustment of Base Rates for Fuel Costs.

DEC's Retail Fuel Adjustment Clause covers the period of June 2006 through September 2007. However, the ORS Audit Staff did not examine the months from July, August, and September 2007 because the amounts of over/under-recovery for July 2007, August 2007 and September 2007 were estimated by the Company for the purpose of adjusting base rates effective October 1, 2007. The estimates for these three months will be subject to true-up at the Company's next hearing.

The ORS Audit Department's examination consisted of the following:

1. ANALYZING THE FUEL STOCK ACCOUNT - ACCOUNT # 151

ORS's analysis of the Fuel Stock Account consisted of tracing receipts to the fuel management system and issues from the fuel management system to the General Ledger, reviewing monthly fuel charges originating in fuel accounting, and ensuring that only proper charges are entered in the Company's computation of fuel costs for purposes of adjusting base rates for fuel costs.

2. VERIFYING RECEIPTS TO THE FUEL STOCK ACCOUNT #151

ORS's testing of coal receipts to the Fuel Stock Account consisted of randomly selecting transactions and tracing each of these randomly selected transactions to a waybill or truck bill, purchase order, a freight voucher and the fuel management system payment voucher for documentation purposes. It also consisted of recalculating the transactions to insure mathematical accuracy.

3. VERIFYING CHARGES TO NUCLEAR FUEL EXPENSE - ACCOUNT # 518

ORS traced the expense amounts for nuclear fuel to the books and records for the period July 2006 through June 2007 to verify the accuracy of the expenses to fuel amortization schedules.

4. VERIFYING PURCHASED AND INTERCHANGE POWER FUEL COSTS

ORS performed an examination of the Company's purchased and interchange power amounts used in the Fuel Adjustment Clause (FAC) for the period July 2006 through June 2007.

ORS obtained the detail of the purchases and sales made by DEC to and from other electric utilities. ORS verified the amounts that are being used in computing total fuel costs for each month. These details allowed ORS to identify fuel costs that are being passed through the clause in computing the factor above or below the base for each period. See ORS's Exhibit JRC-6 for details.

ORS revised Purchased Power figures for July 2006 through June 2007 and the resultant over/under-recovery monthly deferred fuel amounts for July 2006 through June 2007 to reflect calculations which conform with S.C. Code Ann. §58-27-865. This statute addresses "fuel costs related to purchased power." Subsection (A)(2)(b) of this statute states that the total delivered cost of economy purchases, including (but not limited to) transmission charges, are included in Purchased Power Costs if those types of purchases are "less than the purchasing utility's avoided variable costs for the generation of an equivalent quantity of electric power." DEC reflects its Purchased Power figures that contain purchases with non-identifiable fuel costs on a N.C. Fuel Clause basis, which uses a percentage-computed fuel proxy. Identifiable fuel costs are recorded as invoiced or as documented. In order to comply with the S.C. Statute, DEC adjusted its Purchased Power Costs for the review period to reflect the purchase costs allowable under the S.C. Fuel Adjustment Clause. Therefore, after DEC applied this statute to its economic purchases, DEC's adjustment would have increased its Purchased Power Costs of \$59,460,512 for the review period, on a total system--native load basis by \$26,214,099, which results in "as adjusted" Purchased Power Costs of \$85,674,611. However, after ORS applied this statute to the examined economic purchases along with the applicable avoided costs,

ORS had several adjustments which resulted in a difference from DEC's adjustment by a reduction of (\$302,719) on a total system—native load basis, and produced an "as adjusted" Purchased Power Costs total of \$85,371,892. This figure reflects the usage of an avoided cost as a lesser price, at that point in time, over a purchase price. ORS's adjustments are explained in detail in Audit Exhibit JRC-7.

ORS traced the sales and purchases transactions for July 2006 through June 2007 to the Company's sales and purchases monthly reports and, on a sample basis, traced to monthly invoices. ORS recomputed the sales and purchases.

5. VERIFYING KWH SALES

ORS verified total system sales, as filed in the monthly fuel factor computation, for the months of July 2006 through June 2007. This monthly figure was then used to determine the fuel cost per KWH sold.

6. RECALCULATING THE FUEL ADJUSTMENT FACTORS AND VERIFYING THE DEFERRED FUEL COSTS

ORS recalculated the Fuel Costs Adjustment Factors for the months of July 2006 through June 2007 utilizing information obtained from the Company's records.

With reference to fuel cost, ORS verified the Total Fuel Costs for the months of July 2006 through June 2007 to the Company's books and records.

In recalculating the monthly factors, ORS divided the Total Cost of Fuel Burned by Total System Sales to arrive at fuel costs per KWH sales. The base fuel cost per KWH.

included in the base rates, is then subtracted from the fuel cost per KWH sales. The resulting figure represents the fuel cost adjustment above or below base per KWH sales. The South Carolina Retail Jurisdictional KWH deferrals were checked against the Company's records. The actual Deferred Fuel Costs for each month was verified to the Company's books and records.

7. RECALCULATING THE TRUE-UP FOR THE OVER/UNDER-RECOVERED FUEL COSTS

ORS analyzed the cumulative over-recovery of fuel costs that the Company had incurred for the period July 2006 through June 2007 totaling \$1,632,482. ORS added the projected under-recovery of (\$1,594,797) for the month of July 2007, the projected under-recovery of (\$155,662) for the month of August 2007 and the projected over-recovery of \$6,116,009 for the month of September 2007 to arrive at a cumulative over-recovery of \$5,998,032 as of September 2007. The Company's cumulative over-recovery, per McManeus Exhibit No. 5, as of June 2007 totals \$1,937,000 and as of September 2007, the cumulative over-recovery totals \$6,302,000. The difference between the Company's and ORS's cumulative over-recovery as of actual June 2007 is \$304,518. The difference between the Company's and ORS's cumulative over-recovery as of estimated September 2007 totals \$303,968. Audit Exhibit JRC-7, S.C. Retail Comparison of Fuel Revenues and Expenses, consisting of 5 pages, provides the explanation for any cumulative over-recovery difference as of September 2007.

For the purpose of determining the base cost of fuel in base rates effective October 1,

2007, and based on the audit conducted in accordance with the Commission's guidelines, ORS calculated the over-recovery of \$5,998,032 as of estimated September 2007.

Effective as of May 3, 2007, the S.C. Base Load Review Act amended the fuel statute's S.C. Code Ann. §58-27-865 to include the separate calculation of base factor components based on variable environmental costs assigned specifically to customer classes. Per the amended statute, the variable environmental costs include "(a) the cost of ammonia, lime, limestone, urea, dibasic acid, and catalysts consumed in reducing or treating emissions, and (b) the cost of emission allowances, as used, including allowance for SO2, NOx, mercury and particulates." Therefore, Audit Exhibit JRC-5 provides the details necessary to use towards the calculation of the separate variable environmental costs base factors. As stated in the Company's S.C. Retail Adjustment for Fuel Costs Rider, fuel costs will be included in base rates to the extent determined reasonable and proper.

8. VERIFYING THE DETAILS OF THE COMPANY'S FUEL COSTS

ORS prepared exhibits based upon information obtained from DEC's books and records reflecting coal costs during the review period. Specifically, these exhibits are as follows:

Audit Exhibit JRC-1, titled Coal Cost Statistics, provides a detailed analysis of spot and contract coal for the twelve (12) months ended June 2007. Additionally, the Weighted Average of Coal Received is reflected in Audit Exhibit JRC-1 for the twelve-month period.

Total costs for the twelve-month period were divided by the total tons for the twelve-month period in arriving at the average costs per ton received of \$67.47.

Audit Exhibit JRC-2, titled Received Coal-Cost Per Ton Comparison, reflects the overall cost per ton of coal by month for the three major electric utilities regulated by this Commission.

EXHIBITS

Exhibits relative to this proceeding are identified as follows:

AUDIT EXHIBIT JRC-1: COAL COST STATISTICS (AND WEIGHTED AVERAGE OF COAL RECEIVED)

In Audit Exhibit JRC-1, titled Coal Cost Statistics, ORS compares spot and contract coal received for the period July 2006 through June 2007. The comparison is made in the following five (5) areas:

- (1) Tons Received
- (2) Percentage of Total Tons Received
- (3) Total Received Cost
- (4) Received Cost Per Ton
- (5) Cost Per MBTU

This exhibit also reflects the total spot and contract tons received during the period July 2006 through June 2007. ORS has taken the total received cost for the twelve (12) months and divided this by the total tons for the twelve (12) months in arriving at a Weighted Average Cost per ton for the twelve (12)-month period.

AUDIT EXHIBIT JRC-2: RECEIVED COAL-COST PER TON COMPARISON

This audit exhibit reflects the received cost per ton for coal for each month from July 2006 through June 2007 for DEC, Carolina Power & Light Company d/b/a Progress Energy Carolinas, Inc. and South Carolina Electric & Gas Company. ORS has shown, for comparison purposes, the invoice cost per ton, freight cost per ton, total cost per ton and the cost per MBTU.

AUDIT EXHIBIT JRC-3: DETAIL OF NUCLEAR COST

In Audit Exhibit JRC-3, ORS has shown in detail, the two components in total nuclear costs. These components are as follows:

- (1) Burn-up Cost
- (2) Disposal Cost

AUDIT EXHIBIT JRC-4: TOTAL BURNED COST (FOSSIL AND NUCLEAR)

This audit exhibit reflects the per book cost of burned fuel used for generation for the period July 2006 through June 2007. The burned cost of each class of fuel is shown separately. These costs include emission allowance expenses and as of May 3, 2007, other variable environmental costs as described in §58-27-865 (A)(1), as amended (2007 S.C. Acts 16).

AUDIT EXHIBIT JRC-5: DETAILS OF ENVIRONMENTAL COSTS

Shown in this audit exhibit are the details on the variable environmental costs that are covered in §58-27-865 (A)(1), as amended (2007 S.C. Acts 16). Since SO2 Emission

Allowances were included in these costs as of May 3, 2007, this exhibit also explains the treatment of this cost before and after the enactment of this amended fuel statute. Also, this exhibit calculates the S.C. jurisdictional portion of the environmental costs that will be used towards the computation of the separate variable environmental costs base factors. Since the SO2 Emission Allowances had a portion of the current review period's base fuel factor, that portion (which was a decrement) had to be included, as of May 3, 2007, in the computation for the separate variable environmental costs base factors by customer class. The exhibit reflects an under-recovery of (\$6,253,502) in S.C. Environmental Costs that will be spread among the various customer classes.

AUDIT EXHIBIT JRC-6: COST OF FUEL

In Audit Exhibit JRC-6, ORS has computed the total fuel cost applicable to the factor computation. There are three (3) components used in arriving at this cost. These components are as follows:

- (1) Cost of Fuel Burned
- (2) Purchased and Interchange Power Fuel Cost
- (3) Fuel Cost Recovered from Intersystem Sales

Cost of Fuel Burned --- This amount is the burned cost of all fossil and nuclear fuel burned during the period. The costs associated with emission allowances and the other variable environmental costs are also reflected. A detail breakdown of coal, oil, gas, emission allowances/environmental costs and nuclear fuel can be seen in Audit Exhibit JRC-4.

Purchase and Interchange Power Fuel Cost --- This amount is the monthly cost of kilowatt

hours received by Duke from other electric utilities or power marketers.

Fuel Cost Recovered from Intersystem Sales --- This amount is the fuel-related cost of KWH's sold during the period to another electric utility and /or power marketer.

Total fuel cost applicable to the factor is computed by adding the cost of fuel burned to purchased and interchange power fuel cost. This amount is then reduced by fuel associated with intersystem sales.

AUDIT EXHIBIT JRC-7: S.C. RETAIL COMPARISON OF FUEL REVENUES AND EXPENSES

Shown in this audit exhibit are the actual costs for July 2006 through June 2007 and the estimated fuel costs for July, August and September 2007.

Duke Energy Carolinas Coal Cost Statistics July 2006 - June 2007 Docket No. 2007-3-E

Spot	
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<u>Month</u>	Tons <u>Received</u>	Percentage of Total Tons Received	Total Received Cost	Received Cost Per Ton	Cost Per MBTU
	Tons	%	\$	\$	\$
Jul-06	40,896.85	3.73%	2,998,473.61	73.32	2.9745
Aug-06	198,517.88	12.04%	13,098,801.62	65.98	2.7097
Sep-06	254,804.68	15.51%	14,862,867,84	58.33	2.3791
Oct-06	189,970.02	10.26%	13,097,704.67	68.95	2.8218
Nov-06	163,323.10	9.22%	12,261,041.94	75.07	3.0893
Dec-06	69,793.78	3.96%	4,717,057.16	67.59	2.8734
Jan-07	133,908.08	7.35%	8,296,500.14	61.96	2.6040
Feb-07	51,653.15	3.30%	3,359,508.10	65.04	2.6674
Mar-07	122,384.78	6.95%	7,706,599.78	62.97	2.5366
Apr-07	28,709.06	1.90%	1,701,869,59	59.28	2.4763
May-07	53,595.78	3.31%	2,893,737.20	53.99	2.2412
Jun-07 -	30,301.74	2.02%	1,932,348.76	63.77	2.6273
Totals (7/06-6/07)	1,337,858.90		86,926,510,41		

Contract

<u>Month</u>	Tons <u>Received</u>	Percentage of Total Tons Received	Total Received Cost	Received Cost Per Ton	Cost Per MBTU
	Tons	%	\$	\$	\$
Jul-06	1,056,596.28	96.27%	77,794,871.17	73.63	3.0558
Aug-06	1,450,108.62	87.96%	97,340,801.70	67.13	2.7851
Sep-06	1,387,905.84	84.49%	93,409,726.71	67.30	2.7915
Oct-06	1,661,186.51	89.74%	116,015,061.68	69.84	2.8670
Nov-06	1,608,162.89	90.78%	113,317,488.88	70.46	2.8881
Dec-06	1,694,204.86	96.04%	120,010,847.36	70.84	2.8665
Jan-07	1,687,807.96	92.65%	112,896,942.97	66.89	2.7025
Feb-07	1,511,509.89	96.70%	97,629,493.32	64,59	2.6303
Mar-07	1,639,433.37	93.05%	110,700,999.75	67.52	2.7261
Apr-07	1,479,460.46	98.10%	93,463,510.17	63.17	2.5300
May-07	1,564,411.41	96.69%	102,559,840.18	65.56	2.6215
Jun-07	1,469,629.06	97.98%	96,814,060.05	65.88	2.6673
Totals (7/06- 6/07)	18,210,417.15		1,231,953,643.94		

Duke Energy Carolinas Coal Cost Statistics July 2006 - June 2007 Docket No. 2007-3-E

Com	bined

<u>Month</u>	Tons <u>Received</u>	Percentage of Total Tons Received	Total Received Cost	Received Cost Per Ton	Cost Per MBTU
	Tons	%	\$	\$	\$
Jul-06	1,097,493.13	100.00%	80,793,344,78	73.61	3.0527
Aug-06	1,648,626.50	100.00%	110,439,603.32	66.99	2.7759
Sep-06	1,642,710.52	100.00%	108,272,594.55	65.91	2.7766
Oct-06	1,851,156.53	100.00%	129,112,766.35	69.74	2.8624
Nov-06	1,771,485.99	100.00%	125,578,530.82	70.89	2.9066
Dec-06	1,763,998.64	100.00%	124,727,904.52	70.71	2.8668
Jan-07	1,821,716.04	100.00%	121,193,443.11	66.52	2.6955
eb-07	1,563,163.04	100.00%	100,989,001.42	64.60	2.6315
Mar-07	1,761,818.15	100.00%	118,407,599.53	67.21	2.7129
\pr-07	1,508,169.52	100.00%	95,165,379.76	63.10	2.5290
/lay-07	1,618,007.19	100.00%	105,453,577.38	65.18	2,6093
Jun-07 -	1,499,930.80	100.00%	98,746,408.81	65.83	2.6665
Totals (7/06- 6/07)	19,548,276.05		1,318,880,154.35		

Total Received Cost	=	\$ 1,318,880,154.35	=	\$ 67.47
Total Tons Received		19,548,276.05		

Duke Energy Carolinas Received Coal - Cost Per Ton Comparison July 2006 - June 2007 Docket No. 2007-3-E

Duke Energy Carolinas

<u>Month</u>	Invoice Cost <u>Per Ton</u>	Freight Cost <u>Per Ton</u>	Total Cost <u>Per Ton</u>	Cost <u>Per MBTU</u>
	\$	\$	\$	\$
Jul-06	47.04	26.57	73.61	3.0527
Aug-06	47.42	19.57	66.99	2.7759
Sep-06	44.86	21.05	65.91	2.7266
Oct-06	47.54	22.20	69.74	2.8624
Nov-06	49.84	21.05	70.89	2.9066
Dec-06	48.59	22.12	70.71	2.8668
Jan-07	47.22	19.31	66.53	2.6955
Feb-07	43.97	20.63	64.60	2.6315
Mar-07	47.24	19.97	67.21	2.7129
Apr-07	43.49	19.61	63.10	2.5290
May-07	46.03	19.15	65.18	2.6093
Jun-07	45.92	19.91	65.83	2.6665

Carolina Power & Light Company d/b/a Progress Energy Carolinas, Inc.

<u>Month</u>	Invoice Cost <u>Per Ton</u>	Freight Cost <u>Per Ton</u>	Total Cost <u>Per Ton</u>	Cost <u>Per MBTU</u>
	\$	\$	\$	\$
Jul-06	49.90	15.94	65.84	2.6726
Aug-06	51.48	19.01	70.49	2.8319
Sep-06	53.41	19.51	72.92	2.9538
Oct-06	51.23	20.47	71.70	2.8872
Nov-06	51.19	20.68	71.87	2.9094
Dec-06	49.29	20.06	69.35	2.7942
Jan-07	57.44	19.73	77.17	3.1281
Feb-07	51.80	20.66	72.46	2.9205
Mar-07	52.53	19.35	71.88	2.8816
Apr-07	53.74	19.88	73.62	2.9656
May-07	53.98	18.17	72.15	2.8972
Jun-07	47.94	17.35	65.29	2.6319

Duke Energy Carolinas Received Coal - Cost Per Ton Comparison July 2006 - June 2007 Docket No. 2007-3-E

South Carolina Electric & Gas Company

<u>Month</u>	Invoice Cost <u>Per Ton</u>	Freight Cost <u>Per Ton</u>	Total Cost <u>Per Ton</u>	Cost <u>Per MBTU</u>
	\$	\$	\$	\$
Jul-06	49.61	14.17	63.78	2.5398
Aug-06	49.17	14.80	63.97	2.5205
Sep-06	49.92	15.46	65.38	2.5918
Oct-06	49.23	15.72	64.95	2.5642
Nov-06	49.36	13.92	63.28	2.4963
Dec-06	47.40	13.84	61.24	2.4152
Jan-07	45.95	14.36	60.31	2.3849
Feb-07	55.66	12.20	67.86	2.6782
Mar-07	49.10	14.99	64.09	2.5169
Apr-07	48.58	12.90	61.48	2.4300
May-07	49.46	14.81	64.27	2.5200
Jun-07	51.21	12.37	63.58	2.5000

Audit Exhibit JRC-3

Duke Energy Carolinas Detail of Nuclear Cost July 2006 - June 2007 Docket No. 2007-3-E

Month	Burn-up Cost	Disposal Cost	Total Nuclear Cost
	\$	\$	\$
Jul-06	11,571,857	3,439,587	15,011,444
Aug-06	11,340,141	3,434,299	14,774,440
Sep-06	10,201,392	2,915,686	13,117,078
Oct-06	8,415,035	2,279,275	10,694,310
Nov-06	8,949,195	2,520,985	11,470,180
Dec-06	10,883,555	3,171,928	14,055,483
Jan-07	12,090,496	3,619,169	15,709,665
Feb-07	10,026,379	3,019,661	13,046,040
Mar-07	10,032,038	2,992,873	13,024,911
Apr-07	8,784,650	2,640,992	11,425,642
May-07	8,914,021	2,219,388	11,133,409
Jun-07	12,640,633	3,410,146	16,050,779
Total	123,849,392	35,663,989	159,513,381

Duke Energy Carolinas
Total Burned Cost (Fossil and Nuclear)
July 2006 - June 2007
Docket No. 2007-3-E

Month	Coal		Environmental (1)	Ţ	#2 Oil		Gas		Niclear		Total Burned Cost
	s	%		%	•	%	S	%		%	
Jui-06	119,007,875	82.57%	1,279,739	0.89%	1.529.717	1.06%	7.305.818	5.07%	15 011 444	10 44%	444 434 503
Aug-06	126,066,829	82.20%	1,351,460	0.88%	989 001	0.65%	10 188 770	6.64%	44.774.440	6/14.0	144,134,333
Sep-06	89,667,862	82.21%	987,282	%06.0	1713 777	4 570/	2,100,170	9 20%	14,11440	9.03%	000,078,001
Oct-06	98,882,288	87.33%	1 015 653		1,10,11	4 76%	3,363,326	3.23%	13,117,078	12.03%	109,069,527
NoveDe	07 747 705	/600 00	000000000000000000000000000000000000000		111'474'1	9/07:	1,203,403	1.07%	10,694,310	9.44%	113,225,765
20-404	31,141,100	80.08%	812,08	0.80%	1,647,486	1.46%	1,007,759	0.89%	11,470,180	10.17%	112,768,348
Dec-06	91,756,237	84.36%	926,042	0.85%	1,401,596	1.29%	626,335	0.58%	14.055.483	12.92%	108 765 693
Jan-07	90,831,580	81.61%	853,059	0.77%	2,762,251	2.48%	1.140.061	1.02%	15 709 665	14 12%	111 296 616
Feb-07	113,420,315	87.03%	1,482,262	1.14%	1,860,171	1.43%	509,616	0.39%	13.046.040	10.04%	130 318 404
Mar-07	96,502,022	85.87%	1,499,193	1.33%	1.265.373	1.13%	89 541	%800	13 024 911	14 50%	130,316,404
Apr-07	93,662,773	86.11%	1,914,717	1.76%	1.525.411	1 40%	240 225	0.22%	11 425 642	40 540/	400 760 760
May-07	113,663,134	87.89%	2,090,322	1.62%	984.940	%92.0	1 450 825	1 12%	11,423,042	0.51/8	100,700,700
Jun-07	109,650,089	83.01%	2,611,508	1.98%	1,079,206	0.82%	2.700.250	2.04%	16.050.779	12.15%	132 004 832
		-				•					7001,00170
Totals	1,240,858,709	84.67%	16,906,455	1.17%	18,183,040	1.24%	30,052,131	2.05%	159,513,381	10.88%	1,465,513,716

(1) For this exhibit, the variable environmental costs (as adjusted by ORS) are included in fuel expenses as of May 3, 2007, the effective date of the "Base Load Review" Act.

SO2 Emission Allowance Expense has been included in fuel expenses before May 3, 2007

Note: Exhibit prepared by the ORS Audit Staff.

Audit Exhibit JRC - 5
Page 1 of 5

Duke Energy Carolinas

Details of Environmental Costs

Fuel Adjustment Clause (2007-3-E) - Reagent Costs

For the Period Ending September 30, 2007

For the Actual Period: July 2006-June 2007

<u>May</u> Reagents: Urea Ammonia Limestone Total Reagents	Per Filing 172,725 675,700 302,521 1,150,946	Exclude Invoice No. 9059810 (39,904) (39,904)	Reclassify Correction of Invoice No. 90990857	Adjustment for Incorrect Sales & Use Tax Percentage (6,314) (17,154)	<u>Per ORS</u> 166,411 618,642 302,521
				(23,468)	1,087,574
Total Reagents Expense (DEC - As of May 4, 2007See McM (ORS - As of May 3, 2007)	aneus Ex. 7)	1,150,946		<u>ustments</u> 33,538)	1,017,408
<u>June</u>					
Reagents:					
Urea	173,223				
Correction for Inv. # 90990857	,		200.040	(3,381)	169,842
Corrected Urea	173,223		208,813	(14,237)	194,576
			200,613	(17,618)	364,418
Ammonia	654,548			(42.450)	
* Inventory Delta	126,834			(12,450)	642,098
Adjusted Ammonia	781,382			(12,450)	126,834
Limestone				(12,100)	768,932
Correction for Inv. # 90990857	410,120				410,120
Corrected Limestone	208,813		(208,813)		0
Corrected Limestone	618,933		(208,813)		410,120
Total Reagents	1,573,538		0	(30,068)	1,543,470
Ammonia Inventory Delta:					1,343,470
Inventory Balance @ 03/31/07	E25 420				
Inventory Balance @ 06/30/07	525,428				525,428
6 4440101	398,594				398,594
Delta	126,834			-	
- 0.00					

:17:

Duke Energy Carolinas Details of Environmental Costs July 2006 - June 2007 Docket No. 2007-3-E

Environmental Costs DEC's Amount ORS Adjustments ORS Adjustments \$ (2) SO2 Emission Allowance Expense	<u>ed</u>
(-) VOL LINISSION ANDWANCE EXPENSE	
NOTE: Part (a) Not used in computation of Environmental Costs. It is only included in the Fuel Base Factor.	
் (a) (DEC- First 3 days of May) 173,266 (57,755)	
(SRS-1 list 2 days of may) 115,511	
NOTE: Part (b) IS used in the computation of Environmental Costs.	
(b) (DEC-As of May 4, 2007) 1,617,148 57,755 (ORS- As of May 3, 2007)	
1,674,903	
Total 1,790,414 1,790,414	
JUNE 2007	
Environmental Costs DEC's Amount ORS Adjustments ORS Adjustments	<u>d</u>
(2) SO2 Emission Allowance Expense (DEC - As of May 4, 2007) 1.652.238	
(ORS - As of May 3, 2007) 1,652,238 0 (ORS - As of May 3, 2007) 1,652,238	

Audit Exhibit JRC-5 Page 3 of 5

(584,200)

Duke Energy Carolinas Details of Environmental Costs July 2006 - June 2007 Docket No. 2007-3-E

		MAY	2007	
	Environmental Costs	DEC's Amount	ORS Adjustments	ORS As Adjusted
-19-	(3) Gain On NOx Sales (DEC - As of May 4, 2007) (ORS - As of May 3, 2007)	(717,500)	0	(717,500)
	4	JUNE	2007	
	Environmental Costs	DEC's Amount	ORS Adjustments	ORS As Adjusted
	(3) Gain On NOx Sales (DEC - As of May 4, 2007)	(584,200)	0	

(ORS - As of May 3, 2007)

0

Duke Energy Carolinas Details of Environmental Costs July 2006 - June 2007 Docket No. 2007-3-E

and the second second second second	Articles entragences	MAY 2007		addining a succession of the succession
Envir	onmental Costs	DEC's Amount	ORS Adjustments	ORS As Adjusted
(4) Environmental Cost Remaining & Removed	s (Emissions Allowances) I in Intersystem Sales	•	\$	\$
	NOTE: Part (a) Not used in computation of Environmental Co	ests. It is only included in the Fuel Base Factor.	
(a) (DEC- First 3 d (ORS- First 2 d		(41,782)	13,927	(27.055)
٩		NOTE: Part (b) IS used in the computation	on of Environmental Costs.	(27,855)
(b) (DEC- As of Ma (ORS- As of M		(389,964)	(13,927)	
	otal	(431,746)	_	(403,891)
	-		-	(431,746)
	Haman State	JUNE 2007		
Enviro	nmental Costs	DEC's Amount	ORS Adjustments	ORS As Adjusted
(4) Environmental Costs Removed in Intersystem (DEC - As of May 4,				
(ORS - As of May 3,		(1,092,031)	0	(1,092,031)

Duke Energy Carolinas
Details of Environmental Costs
July 2006 - June 2007
Docket No. 2007-3-E

Total	000 8.813.878		_	(3 301 700)					(4, 131,30U) (4, 131,30U)
Estimate Sep-07	1,795,000	1,304,000	(1,170,000)	(2,000,000)	(71,000)	27.0	19,0	1881	· ·
Estimate Aug-07	2,240,000	1,304,000	(1,170,000)	0	2,374,000	27.63%	(655,936)	(923.164)	
Estimate Jul-07	2,218,000	1,304,000	(1,170,000)	0	2,352,000	27.46%	(645,859)	(871,931)	
Jun-07 *	1,543,470	1,652,238	(1,092,031)	(584,200)	1,519,477	27.55%	(418,616)	(802,652)	
May-07 *	1,017,408	1,674,903	(403,891)	(717,500)	1,570,920	26.43%	(415,194)	(658,073)	
Environmental Costs Incurred	Reagents Expense	Emission Allowance Expense	Environmental Costs Recovered in Intersystem Sales	Gain on NOx Sales	Net Environmental Costs	SC % of KWH Sales	SC Environmental Costs Per ORSOver/(Under) Recovery	SC Environmental Costs Billed [Increment/(Decrement)]	SC Environmental Costs Per ORSOver/(Under) Recovery

* As Adjusted by ORS

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Duke Energy Carolinas Cost of Fuel July 2006 - June 2007 Docket No. 2007-3-E

Month	Total Cost of Fuel Burned \$	Purchased and Interchange Power Fuel Cost	Fuel Cost Recovered from Intersystem Sales	Total Fuel Cost
Jul-06	•	\$	\$	\$
	144,134,593	11,068,172	(9,602,041)	145,600,724
Aug-06	153,370,500	14,237,539	(7,645,507)	159,962,532
Sep-06	109,069,527	5,110,171	(9,683,003)	104,496,695
Oct-06	113,225,765	8,169,938	(6,498,816)	114,896,887
Nov-06	112,768,348	14,910,743	(5,307,071)	122,372,020
Dec-06	108,765,693	8,498,806	(6,852,597)	110,411,902
Jan-07	111,296,616	1,232,486	(16,634,301)	95,894,801
Feb-07	130,318,404	3,330,414	(28,040,554)	105,608,264
Mar-07	112,381,040	4,830,068	(25,845,537)	91,365,571
Apr-07	108,768,768	3,103,301	(18,597,923)	93,274,146
May-07	129,322,630	6,511,707	(3,754,812)	• •
Jun-07	132,091,832	4,368,547	(11,588,820)	
Total	1,465,513,716	85,371,892	(150,050,982)	1,400,834,626

^{*} For this exhibit, SO2 Emission Allowance Expenses associated with Intersystem Sales are through to May 3, 2007.

Duke Energy Carolinas S.C. Retail Comparison of Fuel Revenues & Expenses July 2006 - September 2007

Docket No. 2007-3-E

	***************************************		***************************	ACTL	JAL		· 再心 · · · · · · · · · · · · · · · · · ·	****************
	Jul-06	Aug-06	Sep-06	Oct-06	Nov-06	Dec-06	Jan-07	Feb-07
Fossil Fuel (\$)	127,843,410	127 244 600	04.005.405					
Emission Allowance/Environmental Costs (\$) (2)	1,279,739	137,244,600	94,965,167	101,515,802	100,402,950	93,784,168	94,733,892	115,790,1
Nuclear Fuel (\$)	•	1,351,460	987,282	1,015,653	895,218	926,042	853,059	1,482,2
Purchased & Interchange Power (\$) (3)	15,011,444	14,774,440	13,117,078	10,694,310	11,470,180	14,055,483	15,709,665	13,046,0
Sub-Total (\$)	11,068,172	14,237,539	5,110,171	8,169,938	14,910,743	8,498,806	1,232,486	3,330,4
Less: Fuel Cost Recovered through Intersystem Sales (\$) (4)	155,202,765	167,608,039	114,179,698	121,395,703	127,679,091	117,264,499	112,529,102	133,648,8
Total Fuel Costs (\$)	9,602,041	7,645,507	9,683,003	6,498,816	5,307,071	6,852,597	16,634,301	28,040,
· ,	145,600,724	159,962,532	104,496,695	114,896,887	122,372,020	110,411,902	95,894,801	105,608,2
Total System KWH Sales Excluding Intersystem Sales (5)	7,319,976,504	7 704 000 747				, ,	00,004,001	100,000,2
\$/KWH Sales	0.019891	7,794,892,517	7,380,471,224	5,971,704,484	6,037,431,994	6,264,805,330	6,521,026,352	6,901,194,2
Less: Base Sales (\$/KWH) (6)		0.020521	0.014159	0.019240	0.020269	0.017624	0.014705	0.0153
Fuel Adjustment Per KWH (\$/KWH)	0.015802	0.015802	0.015802	0.017760	0.017760	0.017760	0.017760	0.0177
S.C. KWH Sales (000's)	(0.004089)	(0.004719)	0.001643	(0.001480)	(0.002509)	0.000136	0.003055	0.0024
Over/(Under) Recovery (\$)	2,038,725	2,169,427	2,017,839	1,647,460	1,671,874	1,705,410	1,795,176	1,894,7
Cumulative Over/(Under) Recovery - June 2006 (\$)	(8,336,347)	(10,237,526)	3,315,309	(2,438,241)	(4,194,732)	231,936	5,484,263	
Accounting Adjustments (\$)	6,984,672 (1)			•	, , , , , , , ,	,	V,707,200	4,655,3
O Magnine (A)							866,926	
Cumulative Over/(Under) Recovery this Period (\$)	(4.054.075)						000,920	
, , , , , , , , , , , , , , , , , , ,	(1,351,675)	(11,589,201)	(8,273,892)	(10,712,133)	(14,906,865)	(14,674,929)	(8,323,740)	(3,668,4

Please Note:

In Audit Exhibit JRC-7, ORS reflects Over-Recovery amounts without parentheses and reflects (Under)-Recovery amounts with parentheses.

*Explanations of Footnotes (1) through (7) on Audit Exhibit JRC-7 are found on pages 5 through 11 in the testimony of Jacqueline R. Cherry and on pages 3 through 5 of Audit Exhibit JRC-7.

Duke Energy Carolinas S.C. Retail Comparison of Fuel Revenues & Expenses July 2006 - September 2007

						************	ESTIMATED	********
		Mar-07	Apr-07	May-07	Jun-07	Jul-07	Aug-07	Sep-07
Fossil Fuel (\$)		97,856,936	95,428,409	116 000 000				•
Emission Allowance/Environmen	ital Costs (\$) (2)	1,499,193	1,914,717	116,098,899 115,511	113,429,545	133,742,000	135,566,000	107,288,00
Nuclear Fuel (\$)		13,024,911	11,425,642	11,133,409	40.000.000	•	-	
Purchased & Interchange Power Sub-Total (\$)	(\$) (3)	4,830,068	3,103,301	6,511,707	16,050,779	16,155,000	16,155,000	15,447,00
		117,211,108	111,872,069	133,859,526	4,368,547	4,955,000	4,955,000	4,955,00
Less: Fuel Cost Recovered throu Total Fuel Costs (\$)	igh Intersystem Sales (\$) (4)	25,845,537	18,597,923	3,754,812	133,848,871	154,852,000	156,676,000	127,690,00
Total Fuel Costs (\$)		91,365,571	93,274,146	130,104,714	11,588,820	13,821,000	13,821,000	13,821,00
Total System KWH Sales Excludi	na Interessetem Cata		,	100,104,714	122,260,051	141,031,000	142,855,000	113,869,00
\$/KWH Sales	ny intersystem Sales (5)	6,085,837,374	6,233,642,713	6,234,025,736	6,822,509,672	7 425 250 000	*	
Less: Base Sales (\$/KWH) (6)		0.015013	0.014963	0.020870	0.017920	7,435,269,000	7,823,752,000	7,478,860,00
Fuel Adjustment Per KWH (\$/KWH	n	0.017760	0.017760	0.018159	0.018187	0.018968	0.018259	0.01522
S.C. KWH Sales (000's)	''	0.002747	0.002797	(0.002711)	0.000267	0.018187	0.018187	0.01818
Over/(Under) Recovery (\$)		1,614,666	1,727,296	1,647,441	1,879,747	(0.000781)	(0.000072)	0.002962
Cumulative Over/(Under) Recover	V - 02/07 (m d =8.5) (m)	4,435,488	4,831,247	(4,466,213)	501.892	2,041,993	2,161,977	2,064,824
Accounting Adjustments (\$)	y - 02107 (p.1 01 5) (\$)	(3,668,415)		, , , , , , , , , , , , , , , , , , ,	001,032	(1,594,797)	(155,662)	6,116,009
ORS Adjustment to DEC's Accoun	ting Adjustment (t) co	1,517						
		(3,034)						
Cumulative Over/(Under) Recovery	this Period (\$)	765,556	5,596,803	1,130,590	1 632 492	27.005		
		700,336	5,596,803	1,130,590	1,632,482	37,685	(117,977)	

Please Note:

In Audit Exhibit JRC-7, ORS reflects Over-Recovery amounts without parentheses and reflects (Under)-Recovery amounts with parentheses.

*Explanations of Footnotes (1) through (7) on Audit Exhibit JRC-7 are found on pages 5 through 11 in the testimony of Jacqueline R. Cherry and on pages 3 through 5 of Audit Exhibit JRC-7.

Duke Energy Carolinas
ORS Adjustments (Total System Basis)
For the Actual Review Period of July 2006 - June 2007
Docket No. 2007-3-E

<u>Description</u>	DEC's Filing	Adjustments (Differences)	Per ORS
	\$	\$	\$
(1) The cumulative ORS over-recovery balance brought forward from 6/06			
is \$6,984,672. In its testimony, DEC reflects its per books over-recovery			
balance of \$10,861,000 as of 6/06 and a 9/06 under-recovery adjustment of	10,861,289		
\$3,877,000. These two figures together true-up, on an exact basis, to the	(3,876,617)		
ORS beginning balance.	6,984,672		6,984,672
			0,004,072
(2) Emission Allowance/Environmental Costs— (a) For 5/07, ORS will reflect 2 days of costs inclusive with the other fuel costs instead of 3 days (per DEC). The "Base Load Review" Act became effective on May 3, 2007. Emission Allowance Expenses			
are shown with other Environmental Costs separately as of May 3, 2007. DEC based its 3-day calculation on omitting 3 days of all the Reagent Costs. Since the other Reagent Costs were not included in fuel costs before 5/3/07, SO2	2,223,860 x 3 /31 =		1,790,414 x 2 /31 =
Emission Allowance was the only cost that needed pro-rating on DEC McManeus's Exhibits 1 and 5.	215,212		115,511
Emission Allowance OnlyORS vs McManeus's Exhibit 7 (2 vs.3) (For Fuel Factor)	1,790,414 x 3 /31 =		1,790,414 x 2 /31 =
	173,266	(57,755)	115,511
ORS vs. McManeus's Exhibit 7 (29 Days vs. 28 Days) (For Environmental Cost Factor)	1,617,148	57,755	1,674,903
(b) For 6/07,ORS and DEC will reflect Emission Allowance Expenses entirely in the Environmental Cost Factor area. (For Environmental Cost Factor)	1,652,238	0_	1,652,238
(c) Audit Exhibit JRC-5, entitled "Details of Environmental Costs" provides details on the adjustments to Reagent Costs.			
(3) <u>Purchased Power Expenses</u> — (a) For 7/06 and 8/06, DEC reflected incorrect figures per its Native Load info applicable to purchases using the S.C. Avoided Cost Fuel Proxy. The company revised the figures during ORS Staff's audit. Also, for 7/06 ORS reduced the computed purchases applicable to the S.C. Fuel Proxy by \$3,227 for a miscalculation in costs. The ORS audit report reflects the updated figures for 7/06 and 8/06, as follows for Purchased Power Expense:			
Jul-06	11,202,189	(130,790)	11,071,399
Total As Adj July 2006	11,202,189	(3,227) (134,017)	(3,227)
Aug-06 Total As Adj August 2006	14,406,241	(168,702)	14,237,539
Total As AdjJuly and August 2006	25,608,430	(302,719)	25,305,711

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(b) For 9/06 thru 6/07, DEC continued to apply the S.C. Fuel Statute to its examined economic purchases. DEC increased the Purchased Power Costs of \$ 38,424,075 for 9/06-6/07, on a total system—native load basis, by \$21,642,106. This resulted in a total of \$60,066,181 for those months.

Sept-06 Jun-07 Total As Adj.	60,066,181	0	60,066,181
As Adj. Purchased Power-Summarize: (3a) and (3b)	85,674,611	(302,719)	85,371,892
(4) Intersystem Sales—(a) For 8/06, DEC did not update its Transmission Losses for revised info. This error effects Sales since Fuel in Transmission Losses are included in the Sales calculations. The correction is as follows: Fuel in Transmission Losses Fuel in Transmission Losses—Emission Allowances 53,898 x 14.20% (Emiss. Allow. %)= Total—Adjusted—Fuel in Transmission Losses	87,975 12,493 100,468	(34,077) (4,839) (38,916)	53,898 7,654 61,552
Fuel from Intersystem Sales Plus: Adjusted—Fuel in Transmission Losses Total—Adjusted—Fuel from Intersystem Sales	7,583,955 100,468 7,684,423	(38,916) (38,916)	7,583,955 61,552 7,645,507

(b) For 3/07 thru 6/07, DEC included some Nantahala (NP&L) intersystem Sales that should have been excluded. The applicable KWH's were correctly excluded already but the dollars were not. The total amount of the adjustment is (\$429,938). The adjustment details are shown below per month with Adj. (4c) and (4d).

(c) For 4/07 thru 6/07, DEC calculated the Emission Allowances associated with Fuel in Transmission Losses incorrectly. This error effects Sales since Fuel in Transmission Losses are included in the Sales calculations. The adjustment details are shown below per month with Adj. (4b) and (4d). The total amount of the adjustment is (\$909,615).

(d) For 5/07 and 6/07, as mentioned in Adjs. (2a) and (2b) above, the S.C. "Base Load Review" Act became effective as of May 3, 2007. Since there are SO2 Emission Allowances included in Intersystem Sales, any allowances as of May 3, 2007 are computed in the Environmental Cost Factor. This adjustment excludes 29 days of allowances from the Base Fuel Factor computation. The adjustment details are shown below per month with Adj. (4b) and (4c).

Mar-07	Fuel from Intersystem Sales (4b)	25,900,267	(54,730)	25,845,537
Apr-07	Fuel in Transmission Losses (No Adjustment) Fuel in Transmission Losses—Emission Allowances (4c)	41,092	. 0	41,092
	41,092 x 8.90% (Emiss. Allow. %)=	365,718	(000.004)	
	TotalAdjusted -Fuel in Transmission Losses	406,810	(362,061) (362,061)	3,657 44,749
	Fuel from Intersystem Sales (4b)	18,700,473	(147,299)	10 550 474
	Plus: Adjusted-Fuel in Transmission Losses	406,810	(362.061)	18,553,174
	TotalAdjustedFuel from Intersystem Sales	19,107,283	(509,360)	44,749 18,597,923
May-07	Fuel in Transmission Losses (No Adjustment)	32.924	О	22.22
	Fuel in Transmission Losses-Emission Allowances (4c)	02,027	U	32,924
	32,924 x 8.20% (Emiss. Allow. %)=	269,977	(267,277)	2.700
	Total-Adjusted -Fuel in Transmission Losses	302,901	(267,277)	2,700 35,624
	Fuel from Intersystem Sales (4b)	4,233,530	(110,451)	4,123,079
	Plus: Adjusted-Fuel in Transmission Losses	302,901	(267,277)	35,624
	TotalAdjusted-Fuel from Intersystem Sales	4,536,431	(377,728)	4,158,703
	Total-Adjusted-Fuel from Intersystem Sales	4,536,431	(377,728)	4 159 700
	Emission Allow.Costs Removed from Sales (ORS-29 Days) (4d)	(389,964)	(13,927)	4,158,703
	Total-Adjusted-Fuel from Intersystem Sales	4,146,467	(391,655)	(403,891) 3,754,812

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Jun-07 Fuel in Transmission Losses (No Adjustment) Fuel in Transmission Losses-Emission Allowances (4c)	33,307	0	33,307
33,307 x 8.50% (Emiss. Allow. %)= TotalAdjusted -Fuel in Transmission Losses	283,108 316,415	(280,277) (280,277)	2,831 36,138
Fuel from Intersystem Sales (4b) Plus: Adjusted—Fuel in Transmission Losses TotalAdjustedFuel from Intersystem Sales	12,762,171 316,415 13,078,586	(117,458) (280,277) (397,735)	12,644,713 36,138 12,680,851
Total—Adjusted—Fuel from Intersystem Sales Entire Emission Allow. Costs Removed from Sales (4d) TotalAdjustedFuel from Intersystem Sales	13,078,586 (1,092,031) 11,986,555	(397,735) 0 (397,735)	12,680,851 (1,092,031) 11,588,820
<u>Summarize:</u> (4b) (\$54,730) +(\$147,299)+(\$110,451)+(\$117,458)=(<u>\$429,938</u>) (4c) (\$362,061)+(<u>\$</u> 267,277)+(<u>\$</u> 280,277)=(<u>\$909,615)</u> (4d) (<u>\$13,927)</u>	1		
(5) For 5/07, DEC miscalculated a portion of its MWH's applicable to Intersystem Sales that reduce Total System Sales. The error resulted in an increase to System Sales. Therefore, Total System Sales were corrected as follows:			
Total System Sales (KWH's)	6,233,985,618	40,118	6,234,025,736
(6) For 5/07 through 9/07, per DEC the effect of the exclusion of the SO2 Emission Allowances, from expenses and off-system sales, on the current review period's 1.7760 ¢/KWH (Billed) Base Fuel Factor increases the factor to 1.8187¢/KWH. This 1.8187 ¢/KWH reflects what the current factor would be without the net Emission Allowances portion in off-system sales. This produces a decrement applicable to SO2 Emission Allowances of 0.0427 ¢/KWH. ORS takes no exception to this adjusted factor.	1.8187 less (0.0427x3/31) =		1.8187 less (0.0427x2/31) =
For 5/07, ORS reflects the 1.8187 ¢/KWH for 29 days since Emission Allowances were included in the Base Fuel Factor for 2 days.	1.8146	0.0013	1.8159
(7) For 3/07, DEC booked a correcting journal entry to the Deferred Unbilled Revenue Account (Account # 456.53) as an over-recovery for \$1,517. The adjustment was to correct an error in the 1/07 S.C. KWH Sales. The booked 1/07 over-recovery entry was reduced from the correction. The adjusting entry should have been an under-recovery entry. ORS's adjustment is as follows (S.C. Jurisdictional Basis):			
ORS's Under-Recovery is shown in Parentheses			